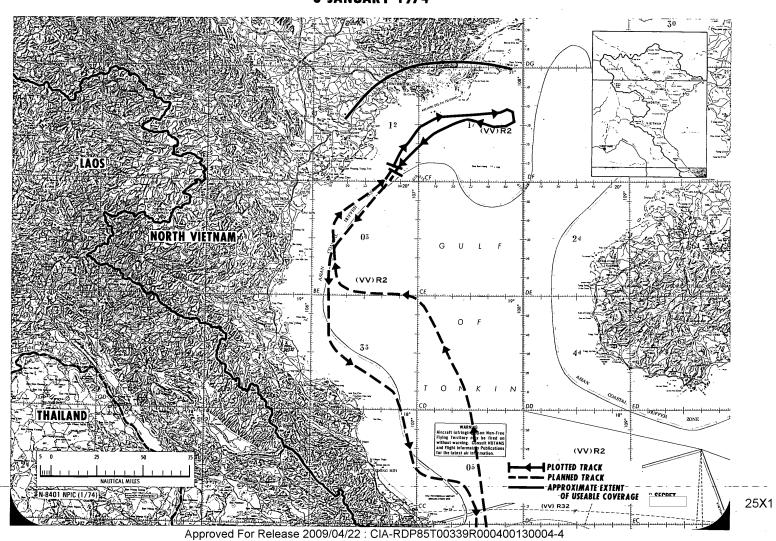
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SCOPE SHIELD MISSION SU S-014-E 6 JANUARY 1974



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REFERENCE TO: SU S-014E,

SCOPE SHIELD MISSION SU S-014E 6 JANUARY 1974

1. SIGNIFICANCE:

PLANNED MISSION TRACK AND SELECTED PHOTOGRAPHS

FROM THE FOURTH SCOPE SHIELD MISSION SU S-014E

OF 6 JANUARY 1974.

2. LOCATION:

SCOPE SHIELD MISSION SU S-014E PROVIDED COVERAGE

OF THE NORTH VIETNAMESE COAST FROM APPROXIMATELY

18° NORTH TO VINH THUC ISLAND, JUST SOUTH OF THE

NORTH VIETNAM-CHINA BORDER.

3. MISSION READOUT:

SCOPE SHIELD MISSION SU S-014E (N-8401)

SCOPE SHIELD MISSION SU S-014E PROVIDED THE BEST PERIPHERAL COVERAGE
TO DATE OF NORTHERN NORTH VIETNAM. CLOUD COVER WAS APPROXIMATELY
60 PERCENT, WITH 95 PERCENT OCCURRING SOUTH OF 20°-30°. THE AREA

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WARNING NOTICE Sensitive Intelligence Source and Methods Involved.

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NORTH OF 20°-30' WAS ALMOST CLOUD FREE. THE INTERPRETABILITY OF THE PHOTOGRAPHY WITHIN 35 NAUTICAL MILES (NM) OF THE TRACK RANGED FROM FAIR-TO-GOOD WITH AN OVERALL EVALUATION OF FAIR FOR SATISFYING MOST INTELLIGENCE REQUIREMENTS. PHOTOGRAPHY BEYOND THIS RANGE WAS CONSIDERED UNUSABLE INTERPRETATION OF THIS MISSION, LIKE ALL OBLIQUE PHOTOGRAPHY, WAS HAMPERED BY MASKING FROM TERRAIN, VEGETATION, AND BUILDINGS.

THIS MISSION PROVIDED NEW OR UPDATED INFORMATION ON SAM DEFENSES,
NAVAL ORDER OF BATTLE, AND A NEW NAVAL ACQUISITION (SUCTION DREDGE)
IN NORTH VIETNAM.

THE FOLLOWING IS AN EVALUATION OF THIS MISSION FOR SATISFYING EEI FOR SPECIFIC TARGET CATEGORIES. DUE TO THE HIGH INTEREST IN THE PORT CITY OF HAIPHONG AND IN THE FEASIBILITY OF PHOTOGRAPHING THE CITY FROM PERIPHERAL FLIGHTS, THE INITIAL PORTION OF THIS EVALUATION WILL DISCUSS THE EXTENT OF INTERPRETABILITY WITHIN THE CITY. THIS WILL

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BE FOLLOWED BY AN EVALUATION OF THE BALANCE OF THE MISSION FOR SATISFYING THE SAME CRITERIA.

A. HAIPHONG COMPLEX:

THE ENTIRE HAIPHONG COMPLEX WAS IMAGED ON PHOTOGRAPHY OF FAIR INTERPRETABILITY. THE PORT AREA WAS 36 NM FROM THE PLOTTED TRACK.

ALL LARGE MERCHANT SHIPS COULD BE EASILY COUNTED. THOSE UNIQUE IN APPEARANCE, COULD BE CLASSED. THE SAME WAS TRUE OF THE LARGE VESSELS MOORED IN THE ANCHORAGES OUTSIDE THE MARITIME CANAL.

ALTHOUGH NO DECK CARGO WAS PRESENT, IT IS LIKELY THAT LARGE ITEMS SUCH AS AIRCRAFT CRATES COULD BE IDENTIFIED. IT IS DOUBTFUL THAT SMALLER ITEMS SUCH AS VEHICLES COULD BE DISTINGUISHED FROM NORMAL DECK CLUTTER. ON THE DOCK, IDENTIFICATION OF LARGE ITEMS WAS HINDERED BY BUILDING MASKING.

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SMALLER VESSELS SUCH AS SHANGHAIS, SWATOWS AND AKL'S, GENERALLY COULD NOT BE IDENTIFIED BY TYPE. THE OVERALL LEVEL OF ACTIVITY IN THE HARBOR COULD BE ASSESSED. HOWEVER, AN ACCURATE COUNT OF SMALL VESSELS IN THE HARBOR AREA WOULD BE IMPOSSIBLE. THEIR IMAGES TEND TO MERGE WHEN SEVERAL ARE MOORED IN CLOSE PROXIMITY TO ONE ANOTHER. THIS IS LARGELY DUE TO THE EXTREME OBLIQUITY.

NO IDENTIFICATION OF SIGNIFICANT PIECES OF EQUIPMENT WAS POSSIBLE
IN OPEN STORAGE AREAS OR ALONG ROADS WITHIN THE CITY. SCALE AND
OBLIQUITY WERE THE MAJOR CAUSES. GENERAL CLUTTER THROUGHOUT THE AREA
AND BUILDING MASKING ADDED TO THE OVERALL PROBLEM. IDENTIFICATION
OF NEW CONSTRUCTION/RECONSTRUCTION WITHIN THE CITY COULD ONLY BE
DETERMINED IF THERE WERE MAJOR CHANGES. IT WAS POSSIBLE, FOR EXAMPLE,
TO DETECT THE FURTHER RECONSTRUCTION OF THREE OF THE LARGE VERTICAL
POL TANKS IN THE PETROLEUM STORAGE FACILITY WEST OF THE CITY.

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DETERMINING OPERATIONAL STATUS OF INDUSTRIAL TARGETS COULD ONLY BE ACCOMPLISHED THROUGH EXTERNAL FUNCTIONS SUCH AS SMOKE BEING EMITTED FROM THE STACKS. USING THIS AS A KEY, IT WAS POSSIBLE TO DETERMINE THAT THE CEMENT PLANT WAS OPERATING WHILE THE THERMAL POWER PLANT DIRECTLY BEHIND IT WAS NOT.

ROLLING STOCK AT THE HAIPHONG RAIL YARD COULD BE ACCURATELY COUNTED EXCEPT FOR THOSE PIECES MASKED BY BUILDINGS. THEY COULD NOT GENERALLY BE TYPED. HOWEVER, AT LEAST ONE LOCOMOTIVE WAS IDENTIFIED BY THE PRESENCE OF SMOKE COMING FROM THE STACK. IDENTIFICATION OF VEHICLES/PIECES OF EQUIPMENT WAS NOT POSSIBLE DUE TO SCALE, OBLIQUITY, AND MASKING.

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B. LOGISTICS MOVEMENTS/VEHICULAR TRAFFIC ON LINES OF COMMUNICATIONS:

THE PANHANDLE AREA OF NORTH VIETNAM WAS ALMOST TOTALLY CLOUD-A SMALL OPENING IN THE CLOUDS REVEALED A NUMBER OF SOUTH-COVERED. BOUND VEHICLES ON ROUTE 1A WAITING TO CROSS THE SONG CA (RIVER) AT THESE VEHICLES, 27.5 NM FROM THE TRACK, THE BEN THUY FERRY CROSSING. COULD EASILY BE IDENTIFIED AS TRUCKS. THE NUMBER AND DIRECTION OF HAZE WAS A PRIMARY FACTOR IN PRECLUDING MOVEMENT COULD BE DETERMINED. COASTAL VEHICULAR ROUTES IN THE PANHANDLE WERE NOT CARGO ASSESSMENT. IMAGED BECAUSE OF CLOUD COVER. THE SERVICEABILITY OF THESE ROUTES, INCLUDING SURFACE CONDITIONS AND BRIDGE REPAIR/RECONSTRUCTION, COULD HAVE BEEN DETERMINED WITH LITTLE DIFFICULTY BASED ON THE OVERALL INTERPRETABILITY OF THE MISSION.

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C. LOGISTICS FACILITIES:

THE HIGH INTEREST LOGISTICS-RELATED FACILITIES IN THE SOUTHERN PANHANDLE WERE OBSCURED BY HEAVY CLOUDS. THEREFORE, NO ASSESSMENT COULD BE ACCOMPLISHED.

D. WATERBORNE LOGISTICS:

NO MAJOR WATERBORNE LOGISTICS FACILITIES, OTHER THAN HAIPHONG,
WERE IMAGED. THE WATERBORNE TRANSSHIPMENT FACILITIES, ANCHORAGES
AND COASTAL WATERWAYS SERVING THE PANHANDLE AREA WERE CLOUD COVERED.
THE COASTAL WATERS AROUND THE ISLANDS EAST OF HAIPHONG, HON GAI
AND CAM PHA WERE COVERED. AN ASSESSMENT OF THE USUAL LIMITED LOGISTICS
ACTIVITIES AT SAMLL TRANSSHIPMENT POINTS AND WATER LEVEL CAVES COULD
BE MADE. THE IDENTIFICATION OF SMALL LOGISTICS CRAFT WAS POSSIBLE
WHEN NOT OBSCURED BY THE NUMEROUS ISLANDS IN THESE COASTAL WATERS.
SMALL LOGISTICS CRAFT, SUCH AS SL-2 AND SL-7 AKL'S, AND SMALL

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COMBATANTS, SUCH AS THE KOMAR CLASS PTG'S, WERE IDENTIFIED AT THE HA TOU NAVAL ANCHORAGE, 22.5 NM FROM TRACK. VESSELS OF THIS SIZE COULD NOT NORMALLY BE TYPED AT HAIPHONG, 36 NM FROM TRACK.

E. DETECTION OF MILITARY BUILDUP:

HEAVY CLOUDS IN THE PANHANDLE PRECLUDED ASSESSMENT OF KNOWN EQUIPMENT CONCENTRATIONS AND THE DETERMINATION OF ANY MILITARY BUILDUP IN THE AREA.

F. SAM/COASTAL DEFENSES:

NO NEW SAM SITES WERE FOUND ON THIS MISSION. ONLY SIX OF THE 34 KNOWN SAM SITES WITHIN 35 NM OF THE AIRCRAFT TRACK WERE OBSERVED IN CLOUD-FREE AREAS. FIVE OF THESE SITES WERE UNOCCUPIED. ONE SITE, 30 NM FROM TRACK, WAS OCCUPIED WITH UNIDENTIFIED PIECES OF EQUIPMENT. THE SITE WAS CONSIDERED NON-OPERATIONAL BECAUSE OF THE ABSENCE OF EQUIPMENT IN THE CENTRAL GUIDANCE AREA.

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AN OCCUPIED COASTAL DEFENSE SITE WAS OBSERVED ON THE DO SON
PENINSULA, 17.5 NM FROM TRACK. THE SITE CONSISTED OF TWO FIRING
POSITIONS EACH OCCUPIED WITH AN UNIDENTIFIED PIECE OF CANVAS—
COVERED EQUIPMENT. MORE REFINED INTERPRETATION OF THIS EQUIPMENT
WAS HINDERED BY IMAGE MOTION ON ONE OF THE TWO FRAMES USED FOR
STEREO VIEWING. THE FACILITY WAS IMAGED AGAIN IN STEREO ON THE
RETURN FLIGHT AT 30 NM FROM TRACK. FURTHER ANALYSIS COULD NOT BE
MADE FROM THIS PHOTOGRAPHY.

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	HAIPHONG COMPLE	X		
	NORTH VIETNAM			
	20-52-00N 106-41-			
	36 NM FROM TRAC	K		
	(N-8404)			
T WATERWAYS COMPTENT THE				
E HAIPHONG COMPLEX WAS	OBSERVED ON FAIR P	HOTOGRAPHY. THE	LEVEL	•
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ACTIVITY APPEARED MODE	ERATE.			
ACTIVITY APPEARED MODE	ERATE.			
ACTIVITY APPEARED MODE		MBER OF COMMERCE	WHARF	
EVEN MERCHANT SHIPS WERE	E MOORED AT THE CHA	•		
	E MOORED AT THE CHA	•		
EVEN MERCHANT SHIPS WERE	E MOORED AT THE CHA) AND ONE ARSD (S		
EVEN MERCHANT SHIPS WERE	E MOORED AT THE CHA) AND ONE ARSD (S		2
EVEN MERCHANT SHIPS WERE SEE N-8407). ONE LARGE S STING SHIP) WERE MOOREI	E MOORED AT THE CHA SUCTION DREDGE (NEW D AT HAIPHONG SHIPY	ARD NO. 1	ALVAGE	2
EVEN MERCHANT SHIPS WERE SEE N-8407). ONE LARGE S STING SHIP) WERE MOOREI	E MOORED AT THE CHA	ARD NO. 1	ALVAGE	2
EVEN MERCHANT SHIPS WERE SEE N-8407). ONE LARGE S FTING SHIP) WERE MOOREI EE N-8409). NO DECK CA	E MOORED AT THE CHA SUCTION DREDGE (NEW O AT HAIPHONG SHIPY ARGO WAS OBSERVED.) AND ONE ARSD (SARD NO. 1 NO MILITARY EQUI	ALVAGE	2
EVEN MERCHANT SHIPS WERE SEE N-8407). ONE LARGE S STING SHIP) WERE MOOREI	E MOORED AT THE CHA SUCTION DREDGE (NEW O AT HAIPHONG SHIPY ARGO WAS OBSERVED.) AND ONE ARSD (SARD NO. 1 NO MILITARY EQUI	ALVAGE	2
EVEN MERCHANT SHIPS WERE SEE N-8407). ONE LARGE S FTING SHIP) WERE MOOREI EE N-8409). NO DECK CA	E MOORED AT THE CHA SUCTION DREDGE (NEW O AT HAIPHONG SHIPY ARGO WAS OBSERVED.) AND ONE ARSD (SARD NO. 1 NO MILITARY EQUI	ALVAGE	2
EVEN MERCHANT SHIPS WERE SEE N-8407). ONE LARGE S FTING SHIP) WERE MOOREI EE N-8409). NO DECK CA	E MOORED AT THE CHA SUCTION DREDGE (NEW O AT HAIPHONG SHIPY ARGO WAS OBSERVED. VES OR IN OPEN STOR	AND ONE ARSD (SARD NO. 1 NO MILITARY EQUIPMENT OF COMMERCE WITHIN THE COMMERCE OF COMMERC	ALVAGE PMENT TY.	2
EVEN MERCHANT SHIPS WERE SEE N-8407). ONE LARGE SEE THING SHIP) WERE MOOREI EE N-8409). NO DECK CA S OBSERVED ON THE WHARVE	E MOORED AT THE CHA SUCTION DREDGE (NEW O AT HAIPHONG SHIPY ARGO WAS OBSERVED. VES OR IN OPEN STOR OF THREE VERTICAL	AND ONE ARSD (S ARD NO. 1 NO MILITARY EQUI AGE WITHIN THE CI POL TANKS WAS OBS	ALVAGE PMENT TY.	2
EVEN MERCHANT SHIPS WERE SEE N-8407). ONE LARGE SEE THING SHIP) WERE MOOREI SEE N-8409). NO DECK CA	E MOORED AT THE CHA SUCTION DREDGE (NEW O AT HAIPHONG SHIPY ARGO WAS OBSERVED. VES OR IN OPEN STOR OF THREE VERTICAL	AND ONE ARSD (S ARD NO. 1 NO MILITARY EQUI AGE WITHIN THE CI POL TANKS WAS OBS	ALVAGE PMENT TY.	
EVEN MERCHANT SHIPS WERE SEE N-8407). ONE LARGE SEE THING SHIP) WERE MOOREI EE N-8409). NO DECK CA S OBSERVED ON THE WHARVE	E MOORED AT THE CHA SUCTION DREDGE (NEW O AT HAIPHONG SHIPY ARGO WAS OBSERVED. VES OR IN OPEN STOR OF THREE VERTICAL	AND ONE ARSD (S ARD NO. 1 NO MILITARY EQUI AGE WITHIN THE CI POL TANKS WAS OBS	ALVAGE PMENT TY.	
EVEN MERCHANT SHIPS WERE SEE N-8407). ONE LARGE SEE THING SHIP) WERE MOOREI EE N-8409). NO DECK CA S OBSERVED ON THE WHARVE	E MOORED AT THE CHA SUCTION DREDGE (NEW O AT HAIPHONG SHIPY ARGO WAS OBSERVED. VES OR IN OPEN STOR OF THREE VERTICAL	AND ONE ARSD (S ARD NO. 1 NO MILITARY EQUI AGE WITHIN THE CI POL TANKS WAS OBS	ALVAGE PMENT TY.	
EVEN MERCHANT SHIPS WERE SEE N-8407). ONE LARGE SEE THING SHIP) WERE MOOREI EE N-8409). NO DECK CA S OBSERVED ON THE WHARVE	E MOORED AT THE CHA SUCTION DREDGE (NEW O AT HAIPHONG SHIPY ARGO WAS OBSERVED. VES OR IN OPEN STOR OF THREE VERTICAL	AND ONE ARSD (S ARD NO. 1 NO MILITARY EQUI AGE WITHIN THE CI POL TANKS WAS OBS	ALVAGE PMENT TY.	25
EVEN MERCHANT SHIPS WERE SEE N-8407). ONE LARGE SEE THING SHIP) WERE MOOREI EE N-8409). NO DECK CA S OBSERVED ON THE WHARVE	E MOORED AT THE CHA SUCTION DREDGE (NEW O AT HAIPHONG SHIPY ARGO WAS OBSERVED. VES OR IN OPEN STOR OF THREE VERTICAL	AND ONE ARSD (S ARD NO. 1 NO MILITARY EQUI AGE WITHIN THE CI POL TANKS WAS OBS	ALVAGE PMENT TY.	

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SEVENTEEN PIECES OF ROLLING STOCK INCLUDING ONE LOCOMOTIVE WERE

OBSERVED AT THE HAIPHONG RAIL YARD AND SHOPS

NO MILITARY EQUIPMENT WAS DISCERNIBLE AT THE RAIL YARD.

WAS OPERATING

WITH FOUR OF THE FIVE STACKS EMITTING SMOKE.

ALSO, THE HAIPHONG CEMENT PLANT

HAIPHONG PORT FACILITY
NORTH VIETNAM
20-51-57N 106-41-43E
36 NM FROM TRACK
(N-8407)

NO MILITARY EQUIPMENT WAS OBSERVED. THE FOLLOWING MERCHANT SHIPS

WERE IDENTIFIED AT THE PORT FACILITY

ONE KEYLA

CLASS (UR), ONE LIAO YUAN CLASS (CH), TWO FRIEDEN CLASS (GE), ONE

PADEREWSKI CLASS (PO), ONE ANDIZHAN CLASS (UR), AND THE HUU NGHI (VN).

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	-
WHIL GUGHTON DEPOCE	•
NEW SUCTION DREDGE	
HAIPHONG SHIPYARD NO. 1 20-52-20N 106-42-12E	
36 NM FROM TRACK	
(N-8409)	
THE EX-WEST GERMAN SUCTION DREDGE TRANSMUNDUM 4 W	VAS OBSERVED FOR
THE FIRST TIME IN NORTH VIETNAM. IT WAS MOORED A	AT HAIPHONG SHIPYARD
NO. 1 THIS DREDGE	2(25)
IT WAS RECENTLY AC	CQUIRED BY THE 25X1
NVN AND WILL SIGNIFICANTLY INCREASE THEIR DREDGIN	NG CAPABILITIES.
THE NEPTUNE CLASS ARDS "HA LONG" WAS ALSO OBSERVE	ED AT THE SHIPYARD.
•	
CAT BI AIRFIELD	
NORTH VIETNAM	
20-40-01N 106-43-46E	e de la companya de l
32.5 NM FROM TRACK (N-8406)	

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ON THE RUNWAY. FIVE PROBABLE HARK

HELICOPTER CRATE PALLETS AND TWO PROBABLE HIP "C" CRATES WERE OBSERVED

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IN THE SAME POSITIONS ON THE RUNWAY.

HAIPHONG SAM SITE A17-2 (VN34)
NORTH VIETNAM
20-47-11N 106-42-22E
30 NM FROM TRACK
(N-8402)

THIS SA-2 SAM SITE CONSISTS OF SIX REVETTED LAUNCH
POSITIONS AND A REVETTED GUIDANCE AREA. THREE OF THE LAUNCH
POSITIONS WERE OCCUPIED WITH UNIDENTIFIED PIECES OF EQUIPMENT.
THE GUIDANCE AREA WAS UNOCCUPIED.

KOMAR PTG
HA TOU NAVAL ANCHORAGE
NORTH VIETNAM
20-56-28N 107-08-43E
22.5 NM FROM TRACK
(N-8403)

TWO KOMAR CLASS PTG AND ONE P-6 HULL WERE AT A SMALL WHARF AT THE HA

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TOU NAVAL ANCHORAGE ______ THIS WAS A REDUCTION OF ONE KOMAR FROM THE NORMAL FORCE SEEN AT THIS LOCATION. CONCRETE BLOCKS, EXTENDING THE WHARF AN ADDITIONAL 160 FEET, WERE BEING EMPLACED.

DO SON COASTAL DEFENSE SITE

NORTH VIETNAM

20-42-05N 106-46-46E

17.5 NM FROM TRACK
(N-8405)

AN OCCUPIED COASTAL DEFENSE SITE WAS OBSERVED ON THE DON SON PENINSULA. IT CONTAINED TWO FIRING POSITIONS. EACH WERE OCCUPIED WITH AN UNIDENTIFIED, CANVAS-COVERED, PIECE OF EQUIPMENT. ANOTHER PIECE OF EQUIPMENT, SIMILAR IN APPEARANCE TO AN SA-2 LAUNCHER, WAS OBSERVED IN A GRADED FIELD NORTHWEST OF THE SITE. AT LEAST FIVE PIECES OF UNIDENTIFIED PROBABLE SUPPORT EQUIPMENT WERE SEEN AT THE SITE.

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VEHICLE CONVOY
BEN THUY FERRY CROSSING
NORTH VIETNAM
18-38-20N 105-42-35E
27.5 NM FROM PLANNED TRACK
(N-8408)

AT LEAST 12 TRUCKS WERE LOCATED ALONG ROUTE 1A ON THE NORTH BANK OF THE SONG CA (RIVER) AWAITING FERRY TRANSPORT.

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These notes have been prepared for briefing purposes only and should not be used for detailed analytical work. Their use should be restricted to the particular briefing boards (s) they were prepared for and must be considered valid only for the reporting period as indicated by the date of issue. For information concerning these notes contact Chief, Imagery Exploitation Group NPIC.

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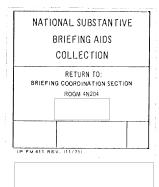
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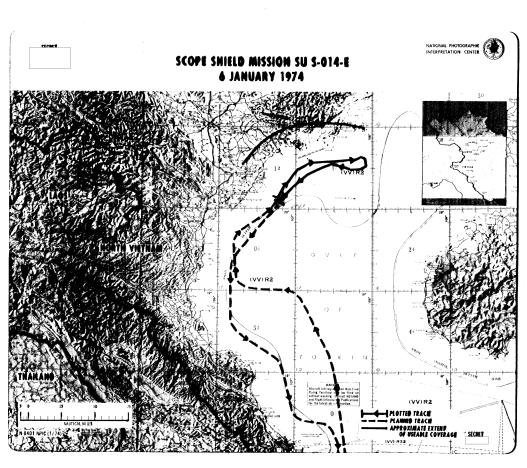


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